



Collimated IR Laser Diode Laser Class 3B

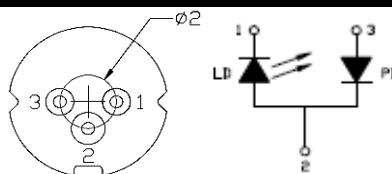
CP-544 Sample specification 2015-11-06
Order number 7322 741 67011

Collimated 10mW N-type laser diode at 780nm with monitor diode

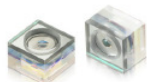
Key parameters (25°C)					unit
max laser power	for safe device operation	6.5			mW
max laser current	at 6.5mW output power	40			mA
max monitor current	at 6.5mW output power	1.2			mA
module dimensions	cylinder of length x diameter	27x11			mm
spot size	at 10m distance	4			mm
collimator clear aperture	a-spherical hybrid glass lens	4.5			mm
Beam parameters (25°C)		min	typ	max	
wavelength		770	780	790	nm
beam divergence	full width at 1/e ² level	0.3		0.4	mrad
beam diameter at module	full width at 1/e ² level		3x4.5		mm
pointing error				10	mrad
Electrical parameters (25°C)		min	typ	max	
threshold current			15	25	mA
operating current	at 1.2mW output power		17	28	mA
operating voltage	at 1.2mW output power		1.9	2.2	V
monitor current	at 1.2mW output power	0.03	0.1	0.2	mA
reverse voltage laser diode				2	V
reverse voltage monitor diode				30	V
Mechanical parameters		min	typ	max	
length of laser module	without laser pins		26.5	27	mm
diameter of laser module	reference (+ ⁰ _{-0.027})		11		mm
finish	aluminum				
Environmental		min	typ	max	
storage temperature	non-condensing	-40		85	°C
operating temperature	non-condensing	-10		60	°C
ESD-protection	none				KV

Connection

- 1 laser diode cathode
- 2 common:
 - photo diode cathode
 - laser diode anode
- 3 photo diode anode



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC DISCHARGE
SENSITIVE DEVICES



Wafer Optics



Lenses



Planar Optics